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## GENERAL NOTES:

Construction - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, Current Edition.

Design - AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002. Load Factor Design Method.

All concrete shall be Class 'S' unless noted otherwise.

Reinforcing Steel shall conform to ASTM Specification A615.
All reinforcing shall be furnished as Grade 60.

See Project plans for wall layout, top of footing and finished grade elevations, footing step and wall joint locations.

Location of Construction Joint shall match the location of a weakened plane joint.

For wall surface treatment see Project Plans. Increase thickness of wall for any treatment with a depth greater than  $\frac{7}{4}$ ".

Compact backfill for footing and wall base minimum 95 percent of ASTM D698 maximum dry density.

Do not scale dimensions from drawings.

Pay Item includes all labor and materials for excavation, backfill, concrete footing and wall with reinforcements. Pay Item is measured as wall height (H) times length of wall. Footing is included in the wall pay item.

Item No. 9140136
SOUND BARRIER WALL (CONCRETE)
Measure: Square Foot

WALL SCHEDULE								
				Reinforcing			Min. Req.	
Wall Height		Ftg. Depth T	Ftg. Width W	Wall	Footing		Allowable  Soil Bearing	
H				Vert.	Bottom Trans.	Bottom Long.	Capacity (psf)	
0'-0 to 3'-11	6"	10"	1 '-6	#4@12"	#4@12"	2-#4	1,000	
4'-0 to 5'-11	6"	10"	2'-0	#4@12"	#4@12"	2-#4	1,300	
6'-0 to 7'-11	6"	10"	2'-6	#4@12"	#4@12"	4-#4	1,500	
8'-0 to 9'-11	6"	10"	3'-0	#4@12"	#4@12"	4-#4	1,600	
10'-0 to 11'-11	8"	1 '-0	3'-6	#4@12"	#4@12"	4-#5	1,700	
12'-0 to 13'-11	8"	1 '-3	4'-6	#5@12"	#5@12"	6-#5	1,900	
14'-0 to 15'-11	8"	1 '-6	5'-0	#5@12"	#5@12"	6-#5	2,000	
16'-0 to 17'-11	10"	1 '-6	5'-6	#5@12"	#5@12"	6-#5	2,100	
18'-0 to 19'-11	10"	1 '-9	6'-0	#5@12"E.F.	#5@12"	6-#5	2,300	
20'-0 to 21'-11	12"	2'-0	6'-3	#5@12"E.F.	#5@12"	6-#6	2,500	
22'-0 to 23'-11	12"	2'-3	6'-6	#6@12"E.F.	#5@12"	6-#6	2,500	
24'-0 to 26'- 0	13"	2'-6	6'-9	#6@12"E.F.	#5@12"	6-#6	2,500	

DESIGN APPR	Shafi U. Hasan	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STRUCTURE DETAIL				
APPROVED FOR DISTRIBUTION  Tean A. Nehme		SOUND BARRIER WALL (CONCRETE)				
ROUTE	PROJECT NO.	FA NO.	DRAWING NO. SD 8.01			
LOCATION			SHEET NO. OF			

& Wall